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MPH

Uniformed Services

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Outline

- Hazards of tobacco use
- Trends in tobacco use
 - ◆ Nationally
 - ◆ Internationally
- ABC's of smoking cessation
 - What you can do as a health professional
 - How to maximize your success rate

CURRENT STATUS (1998 data)

- 24% of Americans smoke
 - ◆26% of men, 22% of women
- 30% of military smoke (down from 42%)
- 38% of blue collar workers
- 37% of Native Americans

Hazards Of Smoking

- Kills > 430,000 Americans each year
 - Responsible for one in five deaths
- Associated with 4 of 5 leading causes of death
- Cancer (lung, larynx, esophagus, pharynx, mouth, bladder, pancreas, kidney, cervix)
- Heart Disease
- Chronic Obstructive Pulmonary Disease
- Stroke

Additional costs of smoking

- With current patterns:
 - Smoking will prematurely kill 25 million Americans who are alive today
 - Includes 5 million under age 18

■ \$50-73 billion in the solution medical expenses mokers.

\$50 billion in indirect costs



Lesser Known Dangers

- Strokes & peripheral vascular disease
- Wrinkles & cataracts

Maternal use associated with:

- IUGR, prematurity, spontaneous Abs, SIDS
 - Resp. for 17-26% of low birth weights
- Mental retardation, birth defects

Environmental Tobacco Smoke

- Nearly 90% of nonsmokers exposed
- Increased risk of lung CA, heart disease
- Asthma, respiratory infections in children
- IUGR, SIDS

Hazards of Cigar Use

- Lung Cancer
- Esophageal Cancer
- Cancer of larynx and oral cavity





Hazards of smokeless tobacco

- Oral cancer
- Leukoplakia
- Halitosis



Trends In Smoking

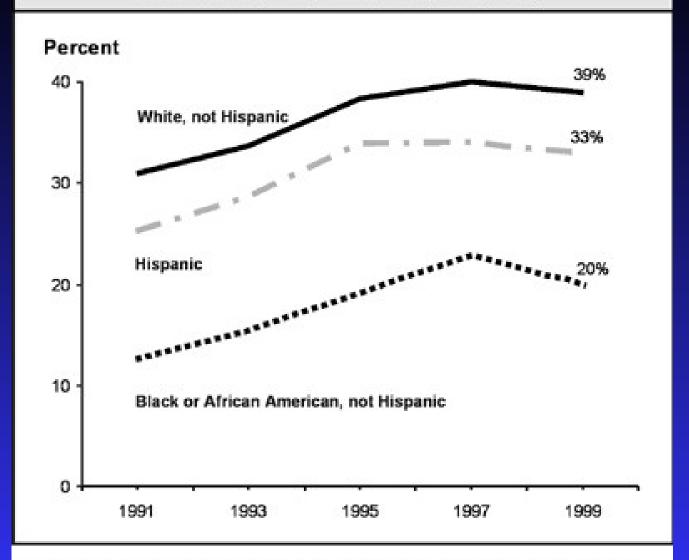
- Steady decline in males smoking
- No change for males with less than high school education
- Women with less than high school education continue to smoke in increasing numbers
- More black women stop when pregnant

Trends In Smoking

- High school senior smoking rate increased from 28% in 1991 to 35% in 1999; 26% in 10th grade, 18% in 8th grade
- 22% smoked cigar in past month
- 13% of middle school students use tobacco
- 1/3 of regular teen smokers will die of tobacco-related disease

Adolescent Cigarette Use

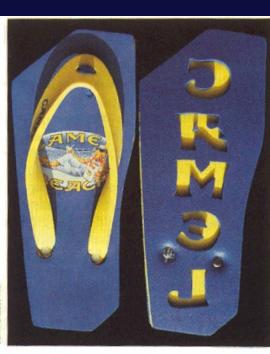
(Adolescents in grades 9 through 12 by race and ethnicity, United States, 1991, 1993, 1995, 1997, 1999)



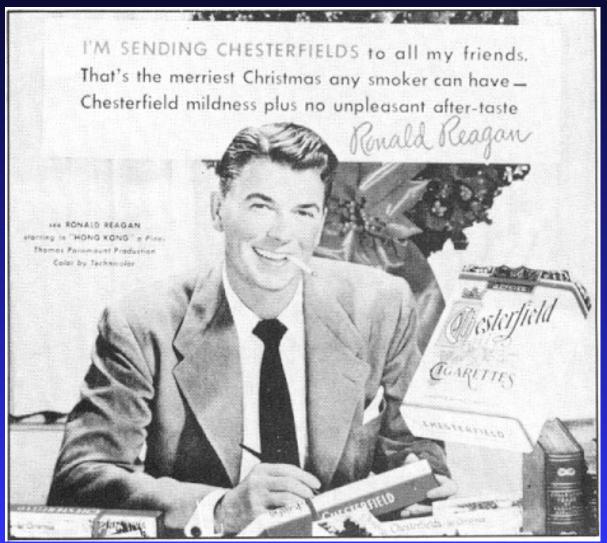
Source: CDC, NCCDPHP. Youth Risk Behavior Surveillance System (YRBSS), 1991, 1993, 1995, 1997, 1999.

Tobacco and children





Politicians and Smoking



POLITICS AND SMOKING

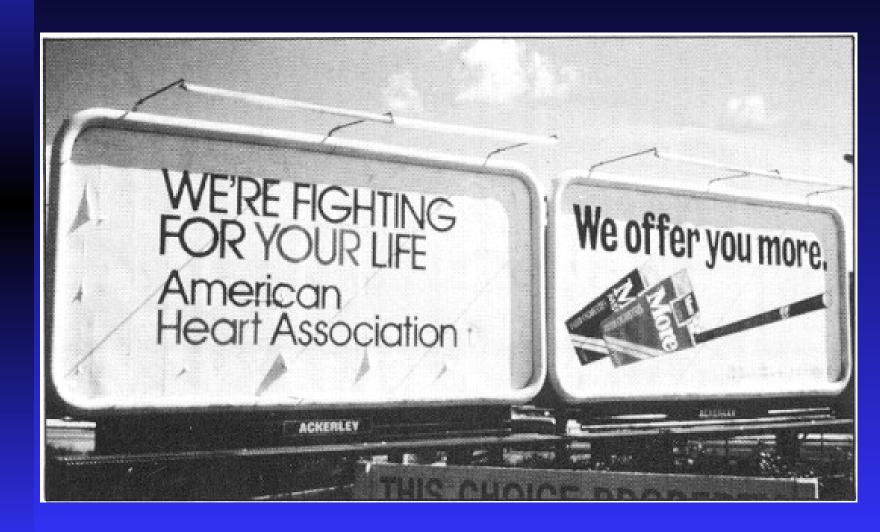
"Every year cigarettes kill more Americans than were killed in WWI, the Korean War, and Vietnam combined: nearly as many died in battle in WWII. Each year cigarettes kill five times more Americans than do traffic accidents...The cigarette industry is peddling a deadly weapon. It is dealing in people's lives for financial gain."

POLITICS AND SMOKING

"...Is it addictive? to some people smoking is addictive. To others, they can take it or leave it. Most people don't smoke at all. I hope children never start." 1965: 183,000 Americans killed by tobacco

1996: 430,000 Americans killed by tobacco

Societal Attitudes



SOCIETAL PROGRESS

- Increased awareness of risks of passive smoke exposure, including for children
- Greater prohibitions on public use
- Strict limits on sales to minors
- Efforts to regulate cigarettes as a drug
- Lawsuits vs. tobacco companies
- Tobacco companies admit wrongdoing

Healthy People 2000

Successfully achieved goals

- Marked decr in death due to heart disease, COPD, lung CA, & oral CA
- Decreases in adults smoking
- Decrease in children's ETS at home
- Increased cessation attempts
- Increased workplace bans

Healthy People 2000

Failure

- Cessation of smoking during pregnancy
 - ◆13% smoke, only 14% of them try to stop
- Smoking in minority teens

Healthy People 2010

1998

Adult

Cigarettes 24%

■ Chew 2.6%

Cigars 2.5%

2010 Goal

12%

0.4%

1.2%

Smoking internationally

- Mean world cigarette use: 1500/adult/year
- Global production & marketing
- Variable taxation (80% of price in India, UK, Denmark; 40%

XOX,

Marlhoro

4 million deaths in 1998 (11,000/day);10 million in 2030

Physicians and Smoking



The importance of the physician

- ≥ 70% of smokers see an MD annually
- 70% want to, and have tried, to quit
- MD's advice is important motivator for attempting to

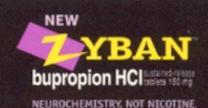
ABC's of Smoking Cessation

- Ask & Advise
- Behavioral Issues
- Classes
- Drugs
- Encouragement
- Feedback, F/U, & Family Members
- Groups
- Hypnosis

Ask & Advise:

- Ask about active and passive smoke exp.
- Advise strongly to quit; personalize advice
- Ascertain knowledge of risks/benefits
- Ask about interest in quitting
- Ask what prevented, or prevents, quitting
- Assist in quitting: develop a plan

HOW TO COUNSEL PATIENTS WHO SMOKE



Essential steps of a successful smoking cessation intervention

Ask

"do you smoke?"

 Smoking status should be ascertained at every patient visit

Advise

all smokers to quit

- In a clear, strong, and personalized manner, encourage every smoker to quit
- Determine if the patient is ready to quit

Assist

smokers in quitting successfully

- Help set the quit day
- Review past quit attempts
- Give key advice
- Prescribe ZYBAN

Arrange

follow-up within 2 weeks of guit day

- Congratulate if successful
- If a lapse has occurred, review and learn from the circumstances
- Obtain recommitment to total abstinence
- Review compliance with therapy with ZYBAN

ZYBAN is contraindicated in patients treated with WELLBUTRIN®, WELLBUTRIN SR®, or any other medications that contain bupropion.

ZYBAN is contraindicated in patients with a seizure disorder or with a current or prior diagnosis of bulimia or anorexia nervosa. The concurrent administration of ZYBAN Tablets and an MAO inhibitor is contraindicated.

Please consult accompanying complete Prescribing Information for ZYBAN.

BEHAVIOR

- How many cigarettes/day?
- Early morning smoker?
- When do you smoke? (when stressed, after meals, after sex, on phone, in car...)
- What led to failure in past?
- Make replacement list, set quit date

CLASSES

- Reported efficacy variable
- Peer support can be helpful
- Individualized element important
- Best used in conjunction with other efforts

DRUGS

- Nicorette gum
- Transdermal Nicotine
- Nicotine spray & inhaler
- Clonidine: oral or transdermal
- Buproprion



Each chewing piece contains nicotine polacrilex equivalent to 2 mg nicotine



Psychological dependence

Nicotine dependence Social factors

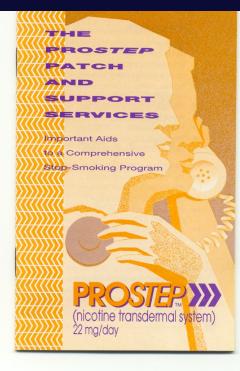
Prescribing Information for Nicorette is provided at the end of this booklet and should be consulted before Nicorette is prescribed.

Lakeside

Nicorette gum

- Available without prescription
- Easily titratable
- Not tolerated by some patients
- Reported efficacy 10-40%; better as adjunct to other methods
- 4 mg better for heavier smokers
- Taper over up to 3 months

Transdermal Nicotine











Transdermal Nicotine

- Nicotrol, Nicoderm, & Habitrol OTC;
- Average price \$25/week
- Reported efficacy 20-40% @ 6-12 months
- Apparent higher efficacy and acceptance, and requires less training in use, than gum
- Skin rash common, but most can continue
- Optimal treatment 8 weeks, including taper

RECOMMENDED PATCH REGIMENS

Prostep (24 hrs/day)
22 mg for 4 wks
11 mg for 4 wks

Nicotrol (16 hrs/day)
15/10/5 mg for
4/2/2 best, but
marketed OTC as
one-step, 6 week
"easy" course

Nicoderm & Habitrol (24 hrs/day) 21 mg/day for 4 wks 14 mg/day for 2 wks

7 mg/day for 2 wks

GUIDELINES FOR NICOTINE

- RAvoid in pregnancy, unstable angina, immed. post-MI, & if serious arrhythmia
- Probably most important for heavy smokers
- Tailor use of gum but not patch
- Emphasize behavioral factors in addition

Clonidine

- No convincing evidence of improvement in cessation rate, despite decrease in symptoms of withdrawal
- Available at WRAMC
- Consider in patients with coincident hypertension and limited finances
- "Hype" may increase efficacy

WHAT TO GIVE PATIENTS TO HELP THEM QUIT



Usage

ZYBAN is indicated as an aid to smoking. cessation treatment in smokers 18 years of age and older.

How to conveniently prescribe ZYBAN:

Dosing should begin at 150 mg/day for the first 3 days.

Increase dosage to the recommended and maximum 300 mg/day (150 mg bid) for most patients for 7 to 12 weeks.* Allow at least 8 hours between

successive doses. ZYBAN should be part of a comprehensive smoking

cessation treatment program.

Please consult accompanying complete Prescribing Information for ZYBAN.

GlaxoWellcome

Glaxo Wellcome Inc.
Research Triangle Park, NC 27709
Web site: www.plaxowellcome.com

MONTH 1

RX OPTION 1 Dispense ZYBAN Sample Pack:

Contains first 3 days of therapy and the ZYBAN Advantage Plan (Available only from your Glaxo Wellcome representative)



RX OPTION 2

Write Rx for ZYBAN Advantage Pack™:

Contains 1 month of therapy and the ZYBAN Advantage Plan (Available at pharmacies)



MONTHS 2 TO 3



for ZYBAN Tablets 150 mg bid #60

*Clinical data are not available on the long-term use (>12 weeks) of bupropion for smoking cessation.

ZYBAN contains the same active ingredient found in WELLBUTRIN® and WELLBUTRIN SR® used to treat depression, and should not be used in combination with WELLBUTRIN, WELLBUTRIN SR, or any other medications that contain bupropion.

The use of bupropion is associated with a dose-dependent risk of seizures. Therefore, clinicians should not prescribe doses over 300 mg/day for smoking cessation. The most commonly observed adverse events consistently associated with the use of ZYBAN Tablets were dry mouth and insomnia.

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Buproprion SR

- Antidepressant, wk inhib of NE, DA, serot.
- Start @ 150 mg qd X 3d, then 150 BID
- Quit tobacco @ 1 week; continue med for 8 weeks after quitting
- 46% quit rate @ 10 wks, c/w 32% for patch
- Contraindicated if seizure d/o, eating d/o
- May have greater effect combined w/patch

OTHER CONSIDERATIONS

- Encouragement/Feedback: high relapse rate
- Follow-up: remember to ask about success at subsequent visits
- Family Members: get them involved; also emphasize risk of passive smoke
- Groups: peer support for quitting
- Hypnosis: helpful for 10-15%

Is it worth your time?

- MD attention increases quit rate
- Smoking assoc'd w/ high morb./mortality
- Cost effectiveness analyses indicate greater QALYs saved than with MMG, FOBT, F/S, lipid reduction, HTN screening--true for counseling, gum, patch
- If at first you don't succeed...

Useful references

- WHO tobacco free initiative: http://tobacco.who.int/
 - ◆ Tobacco Free Olympics
 - World No Tobacco Day 5/31/02
- http://tobaccofreekids.org/
- http://tobaccodocuments.org/
- http://www.cdc.gov/tobacco/index.htm
- http://www.kickbutt.org/

Conclusions

- Trends show reasons for optimism
- Addictive power of tobacco remains problematic internationally, nationally, and individually
- A variety of options for cessation, but success rate still low

Questions

